PTO/SB/05 (01-04)
Approved for use through 07/31/2006. OMB 0651-0032
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## UTILITY PATENT APPLICATION **TRANSMITTAL**

| Attorney Docket No.     | 564-35308-US  |  |
|-------------------------|---|--|
| First Inventor          | Dmitriy Dashevskiy  |  |
| Title                   | Real-Time Drilling Optimization Based on MWD Dynamic Measurements |  |
| Express Mail I abel No. | EV369818044US O   |  |

| (Only for new nonprovisional applications under 57 GFR 1.05(b))   | Express Mail Label No. EV30961804403  |
|---|---|
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.   | ADDRESS TO:  Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450   |
| 1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 26 ] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) | 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. Paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS |
| - Abstract of the Disclosure  4. Drawing(s) (35 U.S.C. 113) [Total Sheets]  5. Oath or Declaration [Total Sheets]  a. Newly executed (original or copy)   | 9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS   |
| b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S)   | Statement (IDS)/PTO-1449 Citations  13. Preliminary Amendment  14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s)   |
| Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  | (if foreign priority is claimed)  16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  Other:  |
| 18. If a CONTINUING APPLICATION, check appropriate box, and supspecification following the title, or in an Application Data Sheet under 3   | 37 CFR 1.76:  |
| Prior application information:  For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the 5b, is considered a part of the disclosure of the accompanying continuation. The incorporation can only be relied upon when a portion has been inadvent.   |   |
| Customer Number: 24923  | OR Correspondence address below   |
| Name  |   |
| Address   |   |
| City  | State Zip Code  |
|   | elephone Fax  |
| Name (Print/Type) Chandran D. Kumar   | Registration No. (Attorney/Agent) 48,679  |
| Signature     /   | Date Name 24 2004   |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|--|-------------------------------|---------------------------------|--|-----------------|
| FEE TRANSMITTAL  |                               | Complete if Known               |  |                 |
| FEE IRANS  | DIVITIAL                      | Application Number              | New Application                                |                 |
| for FY 2004  Effective 10/01/2003. Patent fees are subject to annual revision. |                               | Filing Date                     | March 31, 2004                                 |                 |
|  |                               | First Named Inventor            | Dmitriy Dashevskiy                             |                 |
|  |                               | Examiner Name                   |  |                 |
| Applicant claims small entity status. See 37 CFR 1.27                          |                               | Art Unit                        |  |                 |
| TOTAL AMOUNT OF PAYMENT  | (\$) 878                      | Attorney Docket No.             | 564-35308-US                                   |                 |
| METHOD OF PAYMENT (check   | all that anniv)               | FEE C/                          | LI CILL ATION (continued)                      |                 |

| METHOD OF PAYMENT (check all that apply)  | FEE CALCULATION (continued)  | FEE CALCULATION (continued) |  |  |  |
|---|--|-----------------------------|--|--|--|
| Check Credit card Money Other None  | 3. ADDITIONAL FEES   |                             |  |  |  |
| Deposit Account:  | Large Entity   Small Entity  |                             |  |  |  |
| Denosit   | Fee Fee Fee Fee Description  |                             |  |  |  |
| Account   02-0429 (564-35308-US)  | 1051 130 2051 65 Surcharge - late filing fee or oath                                       | Paid_                       |  |  |  |
| Number Deposit  | 1052 50 2052 25 Surcharge - late provisional filing fee or                                 | _                           |  |  |  |
| Account<br>Name Baker Hughes Incorporated   | cover sheet  | $\dashv$                    |  |  |  |
| The Director is authorized to: (check all that apply)   | 1053 130 1053 130 Non-English specification  | -                           |  |  |  |
| Charge fee(s) indicated below Credit any overpayments   |  | $\dashv$                    |  |  |  |
| Charge any additional fee(s) or any underpayment of fee(s)  | 1804 920* 1804 920* Requesting publication of SIR prior to  Examiner action                |                             |  |  |  |
| Charge fee(s) indicated below, except for the filing fee  | 1805 1,840* 1805 1,840* Requesting publication of SIR after                                |                             |  |  |  |
| to the above-identified deposit account.  | Examiner action  | $\dashv$                    |  |  |  |
| FEE CALCULATION   | 1251 110 2251 55 Extension for reply within first month                                    | $\dashv$                    |  |  |  |
| 1. BASIC FILING FEE   | 1252 420 2252 210 Extension for reply within second month                                  | $\dashv$                    |  |  |  |
| Large Entity Small Entity   | 1253 950 2253 475 Extension for reply within third month                                   |                             |  |  |  |
| Fee Fee Fee Fee Fee Description Fee Paid Code (\$)  | 1254 1,480 2254 740 Extension for reply within fourth month                                |                             |  |  |  |
| 1001 770 2001 385 Utility filing fee 770.00   | 1 1255 2,010 2255 1,005 Extension for reply within fifth month                             |                             |  |  |  |
| 1002 340 2002 170 Design filing fee   | 1401 330 2401 165 Notice of Appeal   |                             |  |  |  |
| 1003 530 2003 265 Plant filing fee  | 1402 330 2402 165 Filing a brief in support of an appeal                                   |                             |  |  |  |
| 1004 770 2004 385 Reissue filing fee  | 1403 290 2403 145 Request for oral hearing   |                             |  |  |  |
| 1005 160 2005 80 Provisional filing fee   | 1451 1,510 1451 1,510 Petition to institute a public use proceeding                        |                             |  |  |  |
| SUBTOTAL (1) (\$) 770.00  | 1452 110 2452 55 Petition to revive - unavoidable  |                             |  |  |  |
|   | 1453 1,330 2453 665 Petition to revive - unintentional                                     |                             |  |  |  |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE   | 1501 1,330   2501   665 Utility issue fee (or reissue)                                     |                             |  |  |  |
| Extra Claims below Fee Paid   | d 1502 480 2502 240 Design issue fee   |                             |  |  |  |
| Total Claims 26 -20** = 6 X 18 = 108  | 1503 640 2503 320 Plant issue fee  |                             |  |  |  |
| Claims  | 1460 130 1460 130 Petitions to the Commissioner  |                             |  |  |  |
| Multiple Dependent  | 1807 50 1807 50 Processing fee under 37 CFR 1.17(q)  |                             |  |  |  |
| Large Entity   Small Entity Fee Fee Fee Fee Fee Description   | 1806 180 1806 180 Submission of Information Disclosure Stmt                                |                             |  |  |  |
| Code (\$)   | 8021 40 8021 40 Recording each patent assignment per property (times number of properties) |                             |  |  |  |
| 1202 18 2202 9 Claims in excess of 20   | 1809 770 2809 385 Filing a submission after final rejection                                | $\dashv$                    |  |  |  |
| 1201 86 2201 43 Independent claims in excess of 3   | (37 ČFR 1.129(a))  |                             |  |  |  |
| 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims | 1 1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))         |                             |  |  |  |
| over original patent  | 1801 770 2801 385 Request for Continued Examination (RCE)                                  |                             |  |  |  |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent                             | 1802 900 1802 900 Request for expedited examination of a design application                |                             |  |  |  |
| SUBTOTAL (2) (\$) 108   | Other fee (specify)  |                             |  |  |  |
| SUBTOTAL (2) ((\$) 108  **or number previously paid, if greater; For Reissues, see above              | *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) -0-                                    | $\Box$                      |  |  |  |

SUBMITTED BY (Complete (if applicable)) Registration No. Chandran D. Kumar. Name (Print/Type) 48,679 Telephone 713-266-1130 (Attorney/Agent) Date March 31, 2004 Signature

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## **EXPRESS MAIL CERTIFICATE**

"EXPRESS MAIL" LABEL NO.: EV369818044US

Date of Deposit: March 31, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above, addressed to: Box Patent

Application, Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Gretchen King

APPLICATION FOR UNITED STATES LETTERS PATENT

FOR

REAL-TIME DRILLING OPTIMIZATION BASED ON MWD DYNAMIC MEASUREMENTS

Inventors:

Dmitriy Dashevskiy Celle, Germany

John D. Macpherson Celle, Germany

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Pat McGinley Celle, Germany

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